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## PATENT ABSTRACTS OF JAPAN

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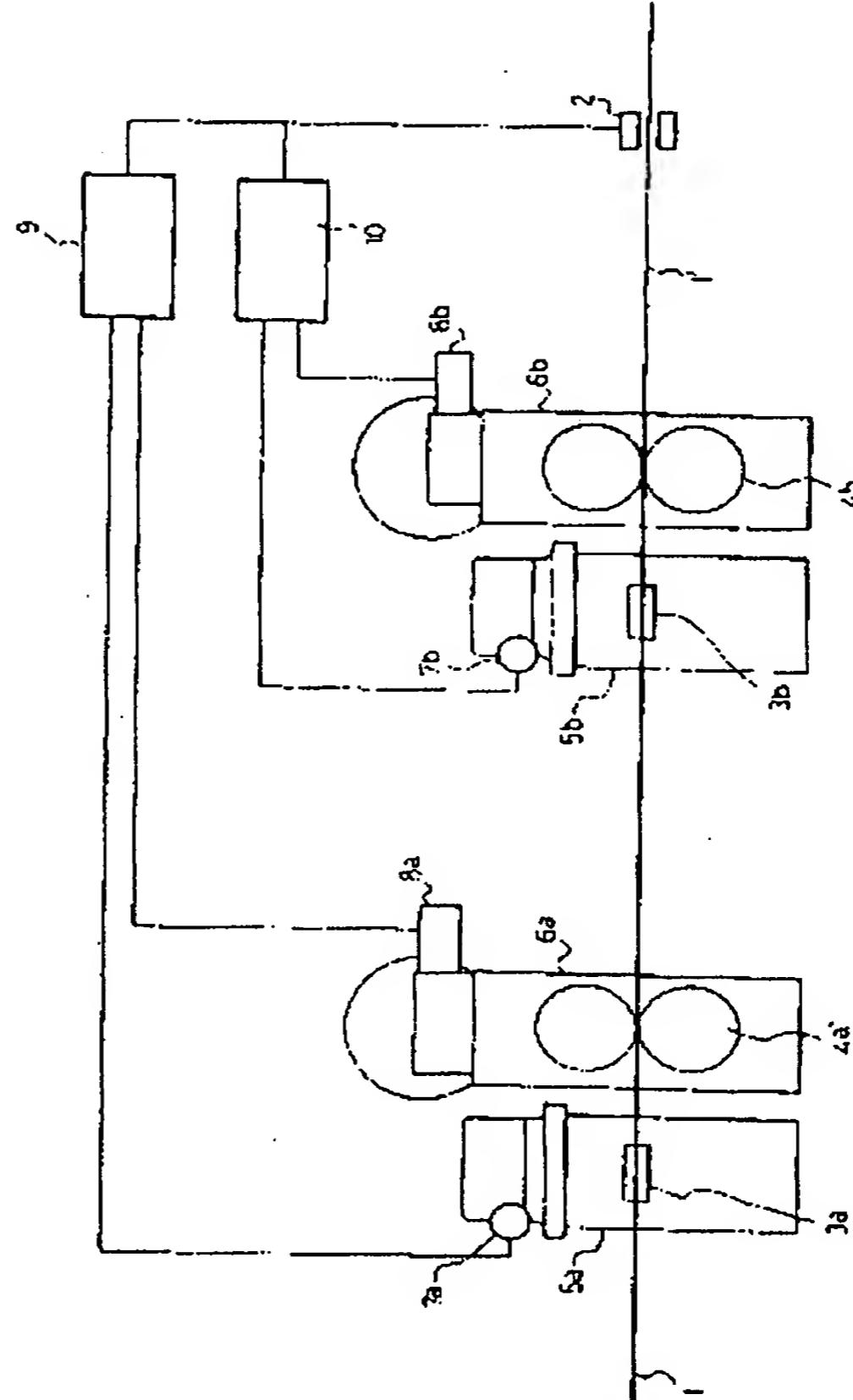
(74) Representative:

## (54) HIGH SPEED WIRE DRAWING EQUIPMENT OF WIRE ROD

(57) Abstract:

**PURPOSE:** To keep always the wire drawing diameter constant at the high speed wire drawing time by transmitting the output of a wire diameter detecting mechanism to a rolling reduction control mechanism and by correcting automatically the rolling reduction mechanism of a roller die accordingly.

**CONSTITUTION:** A wire rod 1 is drawn in two steps by an oval groove roller dies 3a, 3b and round grooved roller dies 4a, 4b. A wire drawing material 1' is directed for a cutter with being straightened by a straight liner but the wire diameter of the wire drawing material 1' is detected by a wire diameter detector 2 before that and the detection signal is transmitted to two axes controllers 9, 10. The controllers 9, 10 output to pulse motors 7a, 8a, 7b, 8b as a correction signal the pulse in the frequencies operated so as to enter within the allowable range the deviation between the measured value and set value of the inputted wire diameter with their comparison. The motors 7a, 8a, 7b, 8b are driven according to the input signal and the rolling reduction of the dies 3a, 4a and dies 3b, 4b are corrected.



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